BRUHATH BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

NAME OF THE WORK IMPROVEMENTS TO DRAIN AT DIFENCE COLONY, BAGALAGUNTE WARD NO. 14

Est. Cost 5000000.00

Sl. No	Description	Dimensions No.	L.	B.	D	Qty.	Rate	Amount
1	2	3	4	5	6	7.00	8	9
	For Drain							
1	KSRRB 300-2 : Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 metres and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH /Chapter 3 (Page No.142, Item No. 19.2)							
	for CC drain	2	150.00	1.20	0.90	324.00		
		2	59.00	1.20	1.00	141.60		
						465.60	119.78	55770.00
							Per Cum	
	Basic Rate	113.00						
	Add 6% A.W	6.78						
	Total	**119.78**						
2	KSRB 4 - 1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth,including cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (Page No.12, Item No. 4.3)							
	For drains	2	150.00	1.20	0.15	54.00		
		2	59.00	1.20	0.15	21.24		
						75.24	5159.02	388165.00
							Per Cum	
	Basic Rate	4867.00						
	Add 6% A.W	292.02						
	Total	**5159.02**						
3	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (Page No.15, Item No. 4.31)							
		8	150.00	0.60		720.00		

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Sl. No	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
		8	59.00	0.60		283.20		
						1003.20	310.58	311574.00
							Per Sqm	
	Basic Rate	293.00						
	Add 6% A.W	17.58						
	Total	**310.58**						
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. for TMT Bars Fe 500 Specification No.KBS 4.6.3 (Page No.17, Item No. 4.46.2)							
		2	1500.00	1.80		5400.00		
		2	590.00	1.80		2124.00		
		2x18	150.00	1.00		5400.00		
		2x18	59.00	1.00		2124.00		
						15048.00		
				15048.00	/ 1000	15.05		
					Say	**15.05**	64243.42	966735.00
							Per Tonne	
	Basic Rate	60607.00						
	Add 6% A.W	3636.42						
	Total	**64243.42**						
5	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M 20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum fine aggregates @ 0.459 cum, with superplastisiser @ 3 lts confirming to IS 9103 - 1999 Reaffirmed - 2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery curing, complete as per specifications.Specification No.KBS 4.1, 4.6 (Page No.13, Item							
	for Drain bed	2	150.00	0.90	0.15	40.50		
		2	59.00	0.90	0.15	15.93		
	for side wall	4	150.00	0.15	0.90	81.00		
		4	59.00	0.15	0.90	31.86		

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Sl. No	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	Basic Rate					169.29	6371.66	1078658.00
	Add 6% A.W	6011.00					Per Cum	
	Total	360.66						
		6371.66						
6	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. of size 450 x 200 x 400 mm (Page No.25, Item No. 5.29.1)							
		2	150.00			300.00		
		2	59.00			118.00		
						418.00		
				418.00	/ 0.45	**929.00**		
					Say	**929.00**	385.84	358445.00
	Basic Rate	364.00					Nos	
	Add 6% A.W	21.84						
	Total	**385.84**						
7	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. (Page No.122, Item No.15.80)							
		2	150.00	0.40		120.00		
		2	59.00	0.40		47.20	27.86	4608
						167.20	29.72	4969.00
	Basic Rate	26.00					Per Sqm	
	Add 6% A.W	3.72	1.86					
	Total	**29.72**	27.86					
8	KSRB 15-19.2 : Providing and applying spary painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materiasl, labour, complete as per specifications. (Page No.122, Item No.15.81)							
	Qty vide item no 19							
						167.20	69.96	11697
						167.20	84.78	14175.00

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Sl. No	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	Basic Rate		66.00				Per Sqm	
	Add 6% A.W		18.78					
	Total		84.78	79.96				
9	Supplying and fixing precast reinforced conceret slabs 10cm thick of mix M20 using 20mm and sownsize graded grantite metal using reinforecement 100mm dia steel at 150mm C/C both ways cost, transportation, hire charges of machinerym machine cuttng the vertical face to get plain even surface etc., complete with all lead and lift conveyance charges, labour charges inclusive of cost of all materials							
		2	150.00	0.90		270.00		
		2	59.00	0.90		106.20		
						376.20	1698.00	638788.00
II	**For Roads**						PerSqm	
10	KSRRB 300-52.1 : Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material within all lifts and leads upto 1000 metres complete as per specifications. MORTH specifications No.305.4.3 (Page No.148, Item No. 19.58)							
		1	100.00	5.00		500.00		
						500.00	21.20	10600.00
	Basic Rate		20.00				Per Sqm	
	Add 6% A.W		1.20					
	Total		**21.20**					
11	KSRB 4 - 1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth,including cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (Page No.12, Item No. 4.3)							
		1	100.00	5.00	0.15	75.00		
						75.00	5159.02	386927.00
	Basic Rate		4867.00				Per Cum	
	Add 6% A.W		292.02					
	Total		**5159.02**					

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Sl. No	Description	Dimensions No.	L.	B.	D	Qty.	Rate	Amount
12	Cement Concrete Pavement:- Construction un-reinforced plain cement concrete pavement, thickness as per design over a prepared sub base with OPC cement or any other type as per clause 1051.2.2. with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrance, sealant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grades as per drawing complete as per specifications. M20 (at 300 kg per cum coarse aggregate @ 0.64 cum and fine aggregate @ 0.43 cum) (Page No.177, Item No. 22.6.2)							
		1	100.00	5.00	0.15	75.00		
						75.00	5508.82	413162.00
							Per Cum	
	Basic Rate	5197.00						
	Add 6% A.W	311.82						
	Total	**5508.82**						
13	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift (Page No.178, Item No. 22.7)							
		1	100.00	5.00		500.00		
						500.00	95.40	47700.00
							Per Cum	
	Basic Rate	90.00						
	Add 6% A.W	5.40						
	Total	**95.40**						
14	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM of machinery, including cost of cutting machine, generator & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. for concrete pavement (Page No.178, Item No. 22.8.1)							

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Sl. No	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
		40	5.00			200.00		
						200.00	121.90	24380.00
	Basic Rate		115.00				Per Sqm	
	Add 6% A.W		6.90					
	Total		**121.90**					
15	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4KM a) Basic rate for haulage of materials as per item No. 17.4/ KSRRB: M100-4,1 … Rs. 2.00 Tonne / Km b) Average earth of work 1.28 Tonne / Km Rs, 2.00 c) Add loading and unloading Page. No. 133 Item No. 17.1 PWD SR 2016-17							
	Qty vide item no 1					465.60		
	Qty vide item no 10			500.00	0.5	250.00		
						715.60	85.49	61177.00
	Loading and unloading Charges		68.00				Per Cum	
	Lead 4 KMs 2.5x1.28x4		12.80					
			80.80					
	Add A W 6 %		4.69					475386.00
	Tota		**85.49**			**Sub Total**		**4761225.00**
								23791.00
	Tender premium							238061.00
								3595
	Miscellaneous and unforeseen charges							714.00
						GRAND TOTAL Rs.		**5000000.00**

CERTIFICATE

1 The work spot have been inspected by me and work is found to be necessary.
2 This estimate is prepared as per the PWD & IWTD CSR of 2016-17
3 This work is not split up
4 The provisions were made in this estimate are adequete and essential
5 This works comes under BBMP Limits

Asst.Engineer
Ward No. 14

Executive Engineer
Dasarahalli Division
B.B.M.P.

Asst.Executive Engineer
T.Dasarahalli Sub Division
B.B.M.P.

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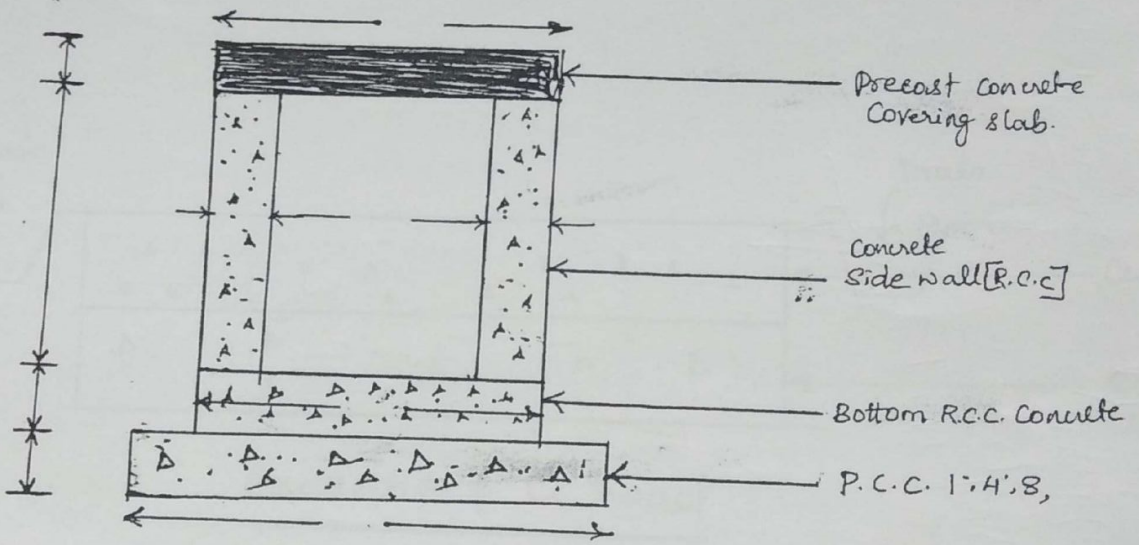
Name of Work:



Drain - Crossection

Note:-
1) All Dimensions are in Centimeters
2) Sketch is not to Scale

Assistant Engineer

Ward No. 14

Assistant Executive Engineer

..... Sub Division

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